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**Comprehensive Long-Term
Environmental Action
Final Sampling And Analysis Plan
for Site 28
Transformer Accident Area
Naval Air Station
Pensacola, Florida**

**SOUTHNAVFACENGCOM
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Environmental Action Navy (CLEAN)
Naval Support Activity
Naval Air Station
Pensacola, Florida**

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19. Abstract

This Sampling and Analysis Plan is for Site 28, the Transformer Accident Area. The purpose of ~~this~~ investigation is to delineate the nature magnitude, and, to the greatest degree possible, *extent* of contaminated soil and sediment to assess ~~the~~ need for site remediation.

Physical surveys to be conducted during ~~the~~ site investigation include a well inventory, a ~~contaminant~~ source survey, and a habitat and biota survey. Field activities to be performed during the site investigation include field screening for ~~PCBs~~, completion of soil borings, the collection of sediment and soil samples, and an ecological ~~assessment~~. Chemical analyses ~~will~~ be completed by a laboratory approved by the Naval Facilities Engineering Service Center formerly NEESA using Contract Laboratory ~~Program~~ protocol. Field sampling, analytical methods, and reporting will be conducted at U.S. Environmental Protection Agency Level ~~IV~~ protocol.

This Sampling and Analysis Plan, in conjunction with ~~the~~ Comprehensive Sampling and Analysis Plan, will provide ~~guidelines~~ for sampling and analytical techniques to be used during the investigation and outline proper documentation procedures for the investigation.

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List of Acronyms

The following list contains many of the **acronyms**, abbreviations, and units of measure used in this report.

bls	below land surface
BRA	Baseline risk assessment
CG	Cleanup Goal
CLEAN	Comprehensive Long-Term Environmental Action Navy
CLP	Contract Laboratory Program
CSAP	Comprehensive Sampling and Analysis Plan
DQO	Data Quality Objective
E/A&H	EnSafe/Allen & Hobhall
FDEP	Florida Department of Environmental Protection
FSA	Full Scan of Analysis
GS	Grain Size
MCL	Maximum Contaminant Level
NAS Pensacola	Naval Air Station Pensacola
NEESA	Naval Energy and Environmental Support Activity
NFESC	Naval Facilities Engineering Service Center formerly NEESA
PCBs	Polychlorinated Biphenyls
PPS	Physical Parameters, Soil
PRGs	Preliminary Remediation Goals
RBC	Risk-Based Concentration
QA	Quality Assurance
QC	Quality Control
RI	Remedial Investigation
SAP	Sampling and Analysis Plan
SDWA	Safe Drinking Water Act
SOPIQAM	Standard Operating Procedures and Quality Assurance Manual
SOUTHNAVFACENGCOM	Southern Division, U.S. Navy, Naval Facilities Engineering command
svocs	Semivolatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TKN	Total Kjeldahl Nitrogen
TOC	Total Organic Carbon
USEPA	United States Environmental Protection Agency
vocs	Volatile Organic Compounds

EXECUTIVE SUMMARY

This Sampling and Analysis Plan is for Site **28**, the Transformer Accident **Area**. The purpose of this investigation is to delineate the **nature** magnitude, and, to the greatest degree possible, extent of contaminated **soil** and sediment to **assess the** need for site remediation.

Physical surveys to **be** conducted during **the site** investigation **include a well** inventory, a contaminant source survey, and a habitat and biota survey. Field activities to **be** performed during the site investigation include field **screening** for PCBs, completion of soil **borings**, the collection of sediment and **soil** samples, **and an** ecological assessment. Chemical analyses will be completed by a laboratory approved by the Naval Facilities Engineering Service Center formerly **NEESA** using Contract Laboratory **Program** protocol. Field sampling, analytical **methods**, and reporting will **be** conducted at **U.S.** Environmental Protection Agency Level IV protocol.

This **SAP**, in conjunction with the Comprehensive Sampling and Analysis Plan, will provide guidelines for sampling and analytical techniques to be **used** during the investigation and outline proper documentation procedures for the investigation.

1.0 INTRODUCTION

As part of the U.S. Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, a Preliminary Site Characterization will be completed by EnSafe/Allen & Hoshall (E/A&H) at Site 28 — the Transformer Accident Area, located at the Naval Air Station Pensacola (NAS Pensacola), Pensacola, Florida. This Sampling and Analysis Plan (SAP) has been developed by E/A&H for this investigation, as tasked by the Southern Division, U.S. Navy, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) under Contract No. N62467-89-D-0318/071.

Primary references for this SAP include the *Comprehensive Sampling and Analysis Plan for Naval Air Station Pensacola* (CSAP) (E/A&H 1994), the United States Environmental Protection Agency (USEPA) Region IV *Standard Operating Procedures and Quality Assurance Manual* (SOP/QAM), and the *Contamination Assessment/Remedial Activities Investigation Work Plan — Group I* (Site 28) completed by Ecology & Environment, Inc. (E&E 1992). References to these documents are made throughout this plan. The investigation of Site 28 will be completed to fulfill requirements set forth in the E&E site work plan (1992) and this site-specific SAP. This investigation will be conducted in accordance with the SOP/QAM and CSAP.

The field investigation will assess the nature of any potential contamination and the need for site remediation during the proposed field investigation. A well inventory, contaminant source survey, and habitat and biota survey will be conducted before field activities begin. Field activities to be performed during the [site investigation] include [immunoassay field screening] for polychlorinated biphenyls (PCBs), the completion of soil borings, the collection of sediment and soil samples, and an ecological assessment. Chemical analyses will be completed by a laboratory approved by the Naval Facilities Engineering Service Center (NFESC) [formerly

NEESA] using Contract Laboratory Program (CLP) protocol. Field sampling, **analytical** methods, **and** reporting will be conducted at USEPA Level IV protocol.

Upon completion of the investigative **work and** laboratory **analysis**, a [data presentation] will be **submitted** to the **USEPA** and Florida Department of Environmental Protection (**FDEP**) Summarizing the activities [and] **results** of the investigation. **[If** required, the report **will** provide supporting data for the completion of a baseline risk **assessment (BRA)**. The presentation will **also** include a comparison of data to the *preliminary* Remediation **Goals (PRGs)**. The detected concentrations of **soil** contaminants will be compared to both the risk-based concentrations (RBCs) for residential land (developed by EPA Region III) and the risk-based cleanup goals (CGs) for Florida (developed by FDEP September **29,1995**. The most recent RBC tables are used, these are **January-June, 1996**. Groundwater contaminants will be compared the Florida **Drinking** Water Standards and Guidance Concentrations, or the Safe Drinking Water Act (SDWA) **Maximum** Concentration Levels (**MCLs**). **If** groundwater contamination, or the potential exists for **soil** contaminants to leach to groundwater, site-specific **soil** actions levels **will** be developed for each contaminant. **If** there are no analytical **results** above PRGs, a Preliminary Site Characterization Report will be submitted. **If** contaminants are present above **PRGs**, additional work will be outlined to delineate the nature and extent of identified contaminants and to **assess** site remediation **needs**. The final investigative **results** will be submitted in either a Preliminary Site Characterization Report or, if warranted based on health or ecological **risk**, a remedial investigation (RI) report. **If an RI** report is required, a feasibility study report **will also be** submitted to examine alternative **remedies**.]

This **SAP**, in conjunction with the CSAP, will provide guidelines for **sampling** and analytical techniques to be used during the [site investigation] and **outline** proper documentation procedures.

2.0 BACKGROUND INFORMATION

2.1 Site Description

Site 28 is next to the northeast corner of Building 632 (**see** Figure 2-1). **Based** on findings in an Initial Assessment Study completed by NEESA in 1983, the **area** of the transformer accident is assumed to be the southern lanes of Radford Avenue. Radford Avenue **has been** expanded from four to five lanes and **repaved** with asphalt **since** the **time** of the transformer accident, **and** the road slopes slightly **from** the crown toward either side.

Storm sewer drains, [**which** are] **connected** to the **NAS** Pensacola sanitary sewer system **and** drain into the treatment plant, **are** along both northern and southern sides of Radford Avenue [near] the transformer accident. [The] storm sewer system did not drain **into** the treatment plant at the time of the accident; thus, any spilled transformer **oil** would have **been** [directed to one of the outfalls bordering] Pensacola Bay (E&E 1992).

An approximately 15-foot wide grassy **area**, **bisected** by concrete sidewalks, is next to the northern and southern sides of Radford Avenue. The site vicinity is generally flat, except for the slope built into the roadway. Land surface elevations average **5** to **10** feet above **mean sea** level.

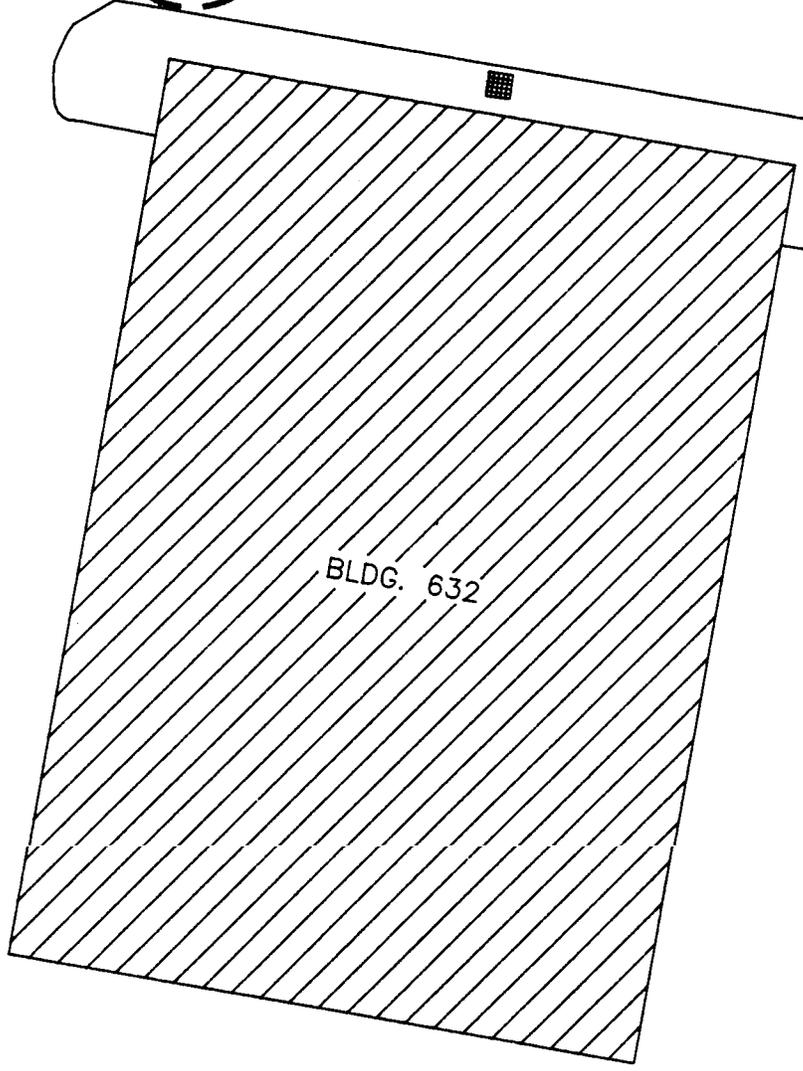
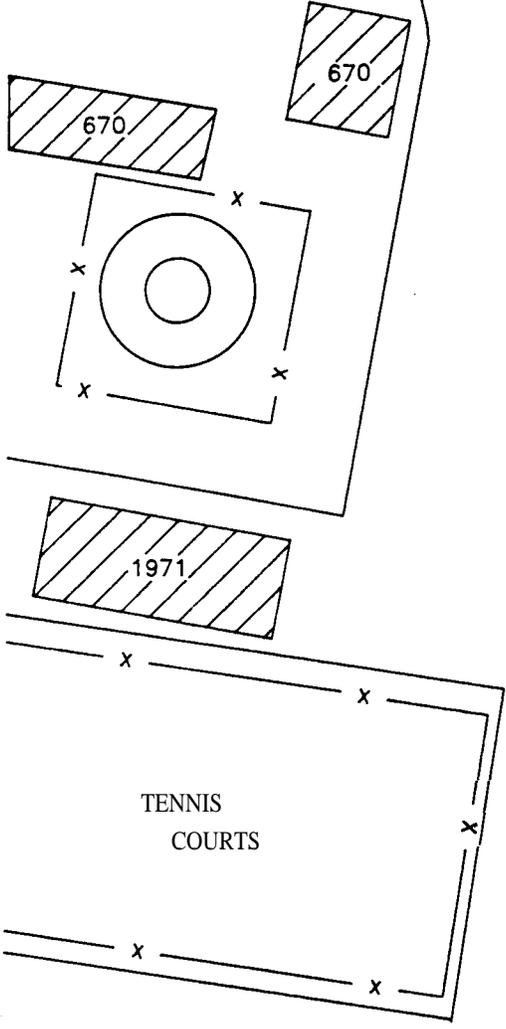
Pensacola Bay is approximately 500 feet south of Radford Avenue, **and** **NAS** Pensacola Supply Well No. 1 is approximately 2,500 feet north-northwest of Site 28. There **are** no monitoring wells within the immediate site vicinity.

3

RADFORD BLVD.



SITE 28



LEGEND

- APPROXIMATE SITE BOUNDARY
- x - FENCE
- STORM DRAIN
- ▨ BUILDING



SAMPLING AND ANALYSIS PLAN
NAS-PENSACOLA
PENSACOLA, FLORIDA

FIGURE 2-1
SITE MAP
SITE 28

DATE: 02/21/95

DWG NAME: 71SIT28A

2.2 Site History

In 1969, a transformer fell ~~from~~ a truck traveling on Radford Avenue north of Building 632 [and] approximately 50 gallons of oil spilled when the transformer broke open. It is not known whether the oil contained PCBs. The oil was reportedly washed into a nearby storm sewer drain emptying into Pensacola Bay. NEESA (1983) recommended no further study of Site 28.

2.3 Physical Setting

Climatology, biological resources, physiography, and hydrogeology for Site 28 and NAS Pensacola are detailed in Sections 4 through 7 of the E&E site work plan (1992).

3.0 PHYSICAL SURVEY

Various physical surveys will be conducted at Site 28 as part of this investigation, including a well inventory, contaminant source survey, and a habitat and biota survey. These surveys will be conducted before field activities begin.

Well Inventory

Existing monitoring wells will be inventoried in accordance with Section 3.1 of the CSAP.

Contaminant Source Survey

A contaminant source survey will be conducted to determine any potential sources and any present or past waste streams at the site. The survey will include a review of previous investigative reports, interviews with present and former NAS Pensacola personnel, aerial photo analysis and a utility survey.

The survey will include, to the greatest extent possible, the identification of the following:

- Location of previous and current underground and overhead piping and utilities.

- Locations of known surface spills.
- a Locations of known historical outfalls.

Habitat and Biota Survey

A Phase I habitat and biota survey **will be performed** in accordance with Section 8 of the **CSAP**. Data obtained during the Site 28 **[site investigation]** will **also be used to assess** ecological **risk** to any onsite terrestrial and aquatic habitats, or any surrounding habitats potentially affected by contaminant migration. If ecological impacts **[(terrestrial)] are suspected** at Site 28 after the Phase I survey, Phase II sampling will **be implemented as outlined** in Section 8 of the **CSAP**.

4.0 FIELD SAMPLING PLAN

The field sampling plan describes the sampling and field measurement procedures **to be used** during the field investigation. The field investigation includes **[immunoassay field screening for PCBs,]** advancing soil borings, **and** collecting sediment and soil samples **using** various techniques. Groundwater sampling is not currently planned for **this** investigation. An ecologic assessment will also **be** conducted.

4.1 Sampling Objectives

The objectives of the field sampling effort are to:

- a Identify potential **sources** of contamination.
- a Assess the **nature** of identified contaminants.
- a Delineate the extent of sediment **and soil** contamination.
- a Delineate migration pathways of **the** contaminants.
- a Identify potential receptors of **the** contaminants.
- a **[Assess the need for site remediation.]**

4.2 Sampling and Analytical Requirements

The sampling and analytical requirements are summarized in Table 4-1 and discussed below. The proposed number of sediment and soil samples are also provided in Table 4-1. The USEPA and FDEP will be apprised of any changes in the number of samples collected.

Any additional sources or previously undetected contamination will be investigated by the collecting additional samples from any given media, sampling additional media not included in this site-specific SAP, installation of monitoring wells to delineate the extent and depth of contaminants [in groundwater], and performing aquifer response tests to characterize subsurface hydrologic conditions [where allowable]. Before additional field activities begin, a field change request will be submitted to the Navy for approval with notification to the USEPA and FDEP.

[Immunoassay field screening will be conducted across the site to identify any areas of PCB contaminated soil. Field screening] will be performed on the soil samples in accordance with the manufacturer's specifications. Areas with detected concentrations will be marked for further sampling.

The USEPA CLP Target Analyte List/Target Compound List (TAL/TCL) will be used to provide a legally defensible full spectrum of contaminant analysis. Sediment and soil will be analyzed for the full TAL/TCL list with additional non-CLP analysis also conducted when warranted. [Hexavalent chromium analyses will not be performed on collected samples due to the lack of previous detection during other investigations at NAS Pensacola (OU 10, Site 1, Site 39) and evidence from the site history indicating it is not a parameter of concern.]

Table 4-1 Site 28 Sampling and Analytical Requirements			
Medium	No. of Samples^a	Analytical Parameter	DQO^b Level
Sediment ^c	2	FSA	IV
	(2)	GSKOC	IV
	(1)	PPS	IV
Soil ^d	4	Immunoassay	II
	6	FSA	IV
	(2)	PPS	IV
TOTAL	4	Immunoassay	II
	8	FSA	IV
	(2)	GSKOC	IV
	(3)	PPS	IV

Source: Modified from Ecology and Environment, Inc., 1992.

Notes:

- a The number of samples shown in parentheses will be analyzed for the additional parameters indicated.
- b **DQO** = Data Quality Objective
- c Total number of sediment samples = 2 sample location x 1 sample interval = 2 sample.
- d Total number of soil samples = [4 immunoassay screening locations x 1 sample interval = 4 samples. 3] soil borings x 2 sample intervals = [6] samples.

[Immunoassay Field Screening for **PCBs**]

FSA — Full Scan of Analysis

Target Compound List (TCL) volatile organic compounds, TCL [semivolatile organic compounds (**SVOCs**)], TCL pesticides, TCL polychlorinated biphenyls (PCBs), TAL metals (unfiltered), and TCL cyanide.

PPS — Physical Parameters, Soil

Total phosphorus, nitrate-N, total Kjeldahl nitrogen (TKN), heterotrophic plate count, total organic carbon, and cation exchange capacity.

[GSKOC — Grain Size and Total Organic Carbon Analysis]

Analyses proposed in this SAP have been [reorganized since] the E&E site work plan (1992) which subdivided them into "Suites A through E." Proposed analytical parameters are now organized into the four basic groups listed below.

New Analytical Organization

- [Immunoassay Field Screening for PCBs]

- **Full Scan of Analysis (FSA)** — A full scan consists of analysis for TCL volatile organic compounds (VOCs), TCL [semivolatile organic compounds (SVOCs)], TCL pesticides, TCL PCBs, TAL metals (unfiltered), and TCL cyanide.

- **Physical Parameters, Soil (PPS)** — The parameters include total phosphorus, nitrate-N, total Kjeldahl nitrogen (TKN), heterotrophic plate count, total organic carbon, and cation exchange capacity.

- [• **Grain Size and Total Organic Carbon Analysis (GS/TOC)**]

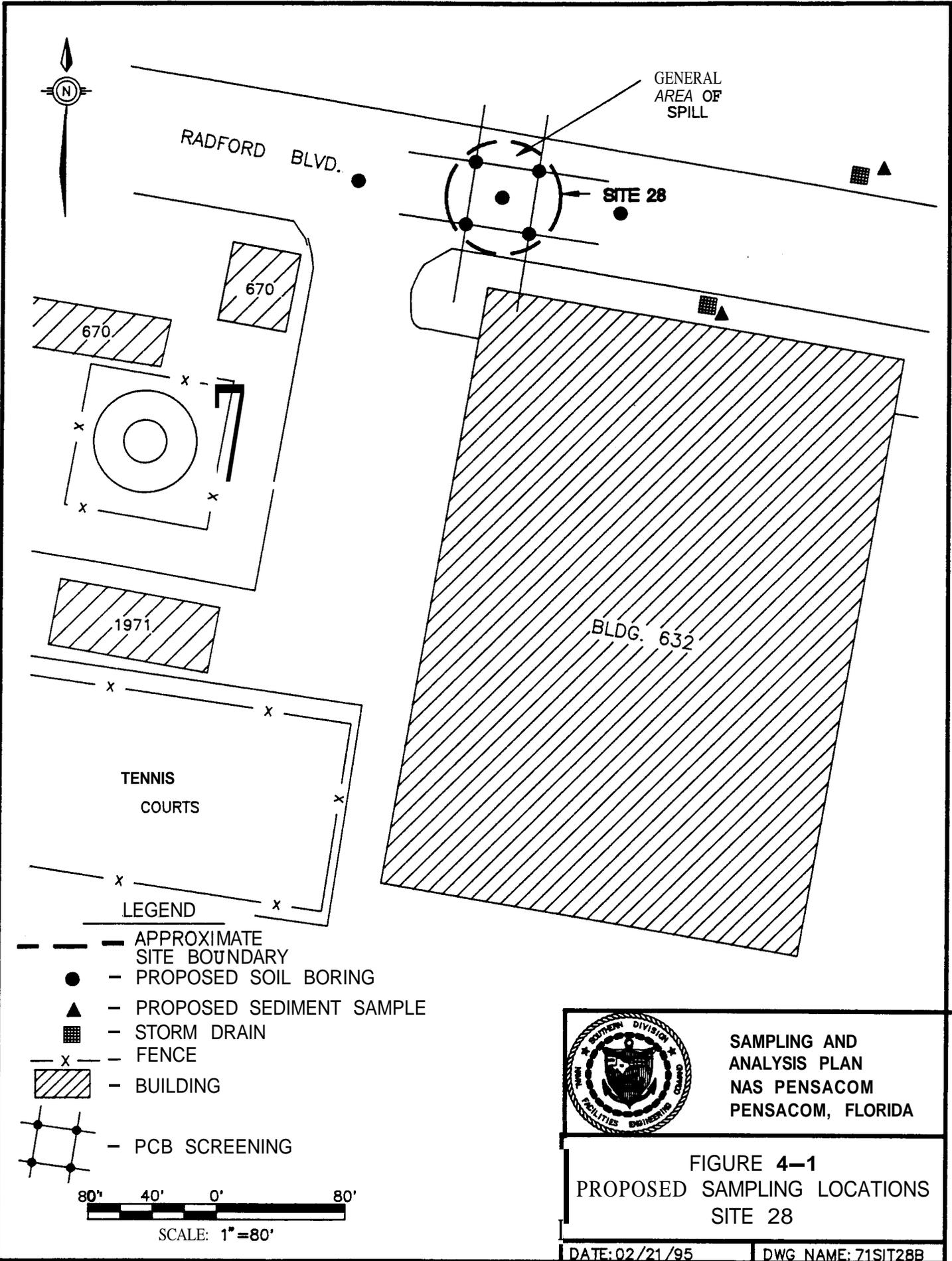
Modifications have also been made to the list of remedial/physical characteristic parameters proposed in the E&E site work plan (1992). Changes were made to the proposed analyses to address CERCLA rather than RCRA requirements (i.e., the omission of Appendix IX analyses) and to acquire additional information regarding the physical characteristics of site sediment and soil if a feasibility study is required. Therefore, certain parameters have been omitted from this SAP because they are either redundant to the comprehensive TAL/TCL analytical methods, provide [information] not legally defensible, or have limited use.

4.3 Sample **Locations** and Rationale

Proposed sample locations **are** presented on Figure 4-1. The sampling program **and** any proposed modifications to the E&E site work plan (1992) **are** described below.

Sediment Samples — FSA will be conducted on two **sediment** samples collected at a 0 to 0.5-foot depth. [GS/TOC] analysis will **be** conducted on two sediment samples, [and **PPS** analysis will be conducted on one sediment sample for remedial design (if required)].

Soil Samples — [For immunoassay screening for PCBs, an approximately 40-foot by 40-foot grid will be established across the site (see Figure 4-1). **Soil** samples **will** be collected from beneath the asphalt-paved surface at each grid node location from the 0 to 1-foot depth interval by hand auger. In addition, sampling locations **will** be biased toward areas identified during the contaminant **source survey**.] FSA will be conducted on soil samples collected from **soil** borings advanced at field screening locations identified **as** having PCB contamination. If the field screening does not identify locations with PCB contamination, at least three soil borings will **be** advanced along Radford Boulevard. Soil samples will **be** collected from the soil boring locations for FSA. All boring locations will **be** sampled at the following intervals: 0 to 1 feet below land surface (bls), 1 to 3 feet bls, 5 to 7 feet bk, etc. **from** the land surface to the depth of the water table. For **borings** located **in** paved areas, the 0 to 1 foot sample **will** be collected immediately **beneath** the pavement/asphalt.] The depth to water is estimated to be 5 feet bls. PPS analyses will be conducted on two soil samples for [remedial design (if required)]. **The PPS** samples will **be** collected to represent both background and potentially contaminated conditions.



Soil samples are not anticipated .to be collected below the water table. If visual or olfactory evidence of contamination is observed below the water table, a sample will be collected for an FSA for characterization and delineation of potential contamination.

4.4 Sampling Procedures

Proposed sampling procedures are presented in Sections 4, 5, 6, and 7 of the CSAP. General sampling requirements will be performed in accordance with Section 2.2 of the CSAP with sample processing performed in accordance with Section 12. Sampling and any proposed procedure modifications to the CSAP or E&E site work plan (1992) are discussed [in the following subsections].

4.4.1 Sediment Sampling

Sediment samples will be collected using a stainless steel hand auger or spoon and bowl. Sediment sampling procedures will be in accordance with Section 7.2 of the CSAP.

4.4.2 Soil Sampling

Soil samples collected for [immunoassay] screening will be collected with a [stainless-steel] hand auger or split-barrel samplers in accordance with Sections 4.4 and 4.6 of the CSAP. Soil borings will be advanced using either hollow-stem auger drilling techniques or hand augers. Soil samples from auger-drilled boreholes will be collected using stainless steel split-barrel samplers in accordance with Section 4.6.1 of the CSAP. Samples from hand augered boreholes will be collected directly from the auger bucket using stainless-steel bowls and spoons].

4.5 Ecologic Assessment

A Phase I habitat and biota survey will be conducted in **accordance** with Section **8.1** of the *CSAP*. **[If additional assessment is warranted, supplemental phases will also be conducted.]**

4.6 Cadastral Survey

[A geodetic survey will be performed using a global positioning system in accordance with manufacturer's specifications.] The wellhead survey measurements will be collected in accordance with Section **10.1** of the *CSAP*.

4.7 Decontamination

Decontamination procedures will be performed in **accordance** with Section **11** of the *CSAP*.

4.8 Investigation-Derived ~~Wastes~~

Investigation-derived wastes will be **handled** in **accordance** with Section **13** of the *CSAP*.

4.9 Field Quality Assurance/Quality Control

Field quality assurance/quality control samples (*QNQC*) will be collected in **accordance** with the frequency presented in Table **15-1** of the *CSAP*. *QNQC* procedures will be in **accordance** with Section **15.2** of the *CSAP*.

5.0 QUALITY ASSURANCE PLAN

The Quality Assurance Plan presented in Section **15** of ~~the~~ *CSAP* will be **followed** during the Site **28** [field investigation].

6.0 DATA MANAGEMENT PLAN

The ~~Data Management~~ Plan presented in Section 14 of the CSAP will be followed during the Site 28 [field investigation].

7.0 REFERENCES

Ecology and Environment, Inc. (1992). *Contamination Assessment/Remedial Activities Investigation ~~Work~~ Plan — Group I, Naval Air Station Pensacola, Pensacola, Florida.*
Ecology and Environment, Inc.: Pensacola, Florida.

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Naval Energy and Environmental Support Activity (NEESA). (1983). *Initial Assessment Study of Naval Air Station, Pensacola, Florida.* NEESA 13-015.

U.S. Environmental Protection Agency. (1991). *Environmental Compliance Branch Standard Operating Procedures and Quality Assurance Manual,* U.S. Environmental Protection Agency, Region IV: Athens, Georgia.

Appendix A
Florida Professional Geologist Seal

FLORIDA PROFESSIONAL GEOLOGIST SEAL

I have read and approve of this Sampling and Analysis Plan, NAS Pensacola Site 28, and seal it in accordance with Chapter 492 of the Florida Statutes. In sealing this document, I certify the geological information contained in it is true to the best of my knowledge and the geological methods and procedures included herein are consistent with currently accepted geological practices.

Name: Brian E. Caldwell
License Number: #1330
State: Florida
Expiration Date: July 31, 1998

B Caldwell
Brian E. Caldwell

10/21/96
Date